

SEQUENCE LISTING

<110> Bienkowski, Michael J.
Heinrikson, Robert L.

<120> Heparanase II, A Novel Human Heparanase Paralog

<130> heparanase II

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<170> PatentIn Ver. 2.1

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<212> DNA

<213> Homo sapiens

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| ctccatctct | ccctttcctc | ccaggctgga | gacaggagac | ccttgccgtg | agacagagct | 180 |
| gcagggttga | aggaaaagac | cctgattcta | cttgatgtga | gcaccaagaa | cccagtcagg | 240 |
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| ctcgatttcc | taagctccaa | gcgcttggtg | accctggccc | ggggactttc | gcccgccttt | 360 |
| ctgcgcttcg | ggggcaaaa | gaccgacttc | ctgcagttcc | agaacctgag | gaacccggcg | 420 |
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 35 40 45
 Val Asp Arg Ala Ala Gly Leu Lys Glu Lys Thr Leu Ile Leu Leu Asp
 50 55 60
 Val Ser Thr Lys Asn Pro Val Arg Thr Val Asn Glu Asn Phe Leu Ser
 65 70 75 80
 Leu Gln Leu Asp Pro Ser Ile Ile His Asp Gly Trp Leu Asp Phe Leu
 85 90 95
 Ser Ser Lys Arg Leu Val Thr Leu Ala Arg Gly Leu Ser Pro Ala Phe
 100 105 110
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 Arg Asn Pro Ala Lys Ser Arg Gly Gly Pro Gly Pro Asp Tyr Tyr Leu
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 Lys Asn Tyr Glu Asp Asp Ile Val Arg Ser Asp Val Ala Leu Asp Lys
 145 150 155 160
 Gln Lys Gly Cys Lys Ile Ala Gln His Pro Asp Val Met Leu Glu Leu
 165 170 175
 Gln Arg Glu Lys Ala Ala Gln Met His Leu Val Leu Leu Lys Glu Gln
 180 185 190
 Phe Ser Asn Thr Tyr Ser Asn Leu Ile Leu Thr Glu Pro Asn Asn Tyr
 195 200 205
 Arg Thr Met His Gly Arg Ala Val Asn Gly Ser Gln Leu Gly Lys Asp
 210 215 220
 Tyr Ile Gln Leu Lys Ser Leu Leu Gln Pro Ile Arg Ile Tyr Ser Arg
 225 230 235 240
 Ala Ser Leu Tyr Gly Pro Asn Ile Gly Arg Pro Arg Lys Asn Val Ile
 245 250 255
 Ala Leu Leu Asp Gly Phe Met Lys Val Ala Gly Ser Thr Val Asp Ala
 260 265 270
 Val Thr Trp Gln His Cys Tyr Ile Asp Gly Arg Val Val Lys Val Met
 275 280 285
 Asp Phe Leu Lys Thr Arg Leu Leu Asp Thr Leu Ser Asp Gln Ile Arg

| 290 | 295 | 300 |
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| Leu Glu Gly Val Val Thr Thr Ser Ala Gly Gly Thr Asn Asn Leu Ser 325 330 335 | | |
| Asp Ser Tyr Ala Ala Gly Phe Leu Trp Leu Asn Thr Leu Gly Met Leu 340 345 350 | | |
| Ala Asn Gln Gly Ile Asp Val Val Ile Arg His Ser Phe Phe Asp His 355 360 365 | | |
| Gly Tyr Asn His Leu Val Asp Gln Asn Phe Asn Pro Leu Pro Asp Tyr 370 375 380 | | |
| Trp Leu Ser Leu Leu Tyr Lys Arg Leu Ile Gly Pro Lys Val Leu Ala 385 390 395 400 | | |
| Val His Val Ala Gly Leu Gln Arg Lys Pro Arg Pro Gly Arg Val Ile 405 410 415 | | |
| Arg Asp Lys Leu Arg Ile Tyr Ala His Cys Thr Asn His His Asn His 420 425 430 | | |
| Asn Tyr Val Arg Gly Ser Ile Thr Leu Phe Ile Ile Asn Leu His Arg 435 440 445 | | |
| Ser Arg Lys Lys Ile Lys Leu Ala Gly Thr Leu Arg Asp Lys Leu Val 450 455 460 | | |
| His Gln Tyr Leu Leu Gln Pro Tyr Gly Gln Glu Gly Leu Lys Ser Lys 465 470 475 480 | | |
| Ser Val Gln Leu Asn Gly Gln Pro Leu Val Met Val Asp Asp Gly Thr 485 490 495 | | |
| Leu Pro Glu Leu Lys Pro Arg Pro Leu Arg Ala Gly Arg Thr Leu Val 500 505 510 | | |
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